Agriculture

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD

INDEX

TO VOLUME 72

January 1965 to December 1965

SUBJECT . . pages ii-vii
AUTHOR . . pages viii-ix

	Pages
No. 1. JANUARY 1965	1–48
No. 2. FEBRUARY 1965	49–96
No. 3. MARCH 1965	97–154
No. 4. APRIL 1965	155–208
No. 5. MAY 1965	209–260
No. 6. JUNE 1965	261–318
No. 7. JULY 1965	319–366
No. 8. AUGUST 1965	367–416
No. 9. SEPTEMBER 1965	417–472
No. 10. OCTOBER 1965..	473–520
No. 11. NOVEMBER 1965	521–568
No. 12. DECEMBER 1965	569–624

LONDON: HER MAJESTY'S STATIONERY OFFICE
1965

VOL. 72

JANUARY 1965—DECEMBER 1965

SUBJECT INDEX

Acres of Neglect 381
Agricultural Aviation 621
Agricultural Chemicals Approval Scheme 92, 96, 193, 260, 318, 366, 416, 520, 619
Agricultural Development in Hungary 606
Agricultural Marketing Schemes 620
Agriculture's Role in the National Economic Development Plan 559
Aims of PIDA's Accreditation Scheme 549
A.I.: Twenty-five million by 202
All about fruit: Research Spot 431
Animal Disease Surveys: Cows, Sheep and Pigs 42
Animal Disease Surveys Report No. 2, Part II: Fluorosis in Cattle 561
Animal Health:
  Animal Disease Surveys: Cows, Sheep and Pigs 42
  Animal Disease Surveys Report No. 2, Part II: Fluorosis in Cattle 561
  Ewes go to the Dentist 411
  Fowl Pest Policy 360
  Free Vaccination against Brucellosis 1
  Great Cattle Plague of 1865 482
  Liver Fluke–a bad winter forecast for the West 514
  New blowfly dips 231
  Poultry Health Scheme 621
  Save Those Calves! 521
  Scouring Calf 62
  Swayback can be prevented 6
Annual Accounts: Concerning 28
Annual Review, 1965: A Short Guide 198
A.R.C. reports: Research Spot 278
Artificial Rearing of Lambs 54
Auchincruive: Dairy Herd at 203
Automatic Feeding 282
Autumn Calvers 417

Barley Growing in Devon 544
Barley Varieties: The Changing Scene in 575
Beef:
  Beef from Ayrshires 474
  Beef on Record 320
  Beef on the Side 319
  Beef over the Counter 451
  Beef Production: The Small Farm 262
  Charolais in England and Wales 210
  Grass into Beef 252
  Marketing Beef by Specifications 167
Blackcurrant Reversion 106
Blowfly dips: The new 231
Book Reviews (see pp. vi–vii)
Brucellosis: Free Vaccination against 1
Bull Licensing: Changes in 561
Bustards, Feasaunts and Hares 88
Buy or Hire? 250

Calf Shortage 90
Carrot growing on the Bed System 313
Cattle:
  Animal Disease Surveys: Cows, Sheep and Pigs 42
Cattle: (*cont.*)
  Animal Disease Surveys Report No. 2, Part II: Fluorosis in Cattle 561
  Autumn Calvers 417
  Beef from Ayrshires 474
  Beef on Record 320
  Beef on the Side 319
  Beef Production: The Small Farm 262
  Calf Shortage 90
  Changes in Bull Licensing 561
  Charolais in England and Wales 210
  Combined sheep and cattle handling units 464
  Cow conduct and loose housing design 358
  Cow 'Kennels' 297
  Dairy Herd at Auchincruive 203
  Free Vaccination against Brucellosis 1
  Grass in an Arable Area 454
  Great Cattle Plague of 1865 482
  How many Acres per Cow? 570
  Loose housing breeding herds 144
  Made to measure 310
  Save Those Calves! 521
  Scouring Calf 62
  Triple Suckling Pays 14
  Twenty-five million by A.I. 202
Cattle Grids: 'An even better bargain' 313
Cereals:
  Barley Growing in Devon 544
  Changing Scene in Barley Varieties 575
  Chilled Grain Storage 579
  'Don't despise the fallow' 314
  Grain in Store 473
  Home-Grown Cereals Authority–bonus payments and levies 467
  Marketing Home-grown Cereals 40
  Minimum Cultivations for Cereals 522
  Oats in Decline 301
  Progress in Plant Breeding: Research Spot 390
  Syndicate Grain Stores 506
Changes in Bull Licensing 561
Changes in the Poisonous Substances Regulations 516
Changing Scene in Barley Varieties 575
Charolais in England and Wales 210
Cheese:
  Derby 352
  Leicester 459
  Wensleydale 82
Chemicals:
  Changes in the Poisonous Substances Regulations 516
  Recommended Common Names for Pesticides 147
Chilled Grain Storage 579
Colbred Story 2
Colorado Beetle in 1964 204
Combined sheep and cattle handling units 464
Coming of the Conifers 203
Computers at the Farmer's Service 72
Concerning Annual Accounts 28
Controls: Standard for Agricultural Machines 489
Cow conduct and loose housing design 358
Cow 'Kennels' 297
Crossbreeding Pigs 148

Dairying:
Dairy Herd at Auchincruive 203
Feeding Time 155
Derby Cheese 352
Digby Story 270
Diseases (Livestock and Crops):
Animal Disease Surveys: Cows, Sheep and Pigs 42
Animal Disease Surveys Report No. 2, Part II: Fluorosis in Cattle 561
Blackcurrant Reversion 106
Fowl Pest Policy 360
Free Vaccination against Brucellosis 1
Great Cattle Plague of 1865 482
Keeping disease off your farm 21
Liver Fluke–a bad winter forecast for the West 514
On your guard against Fluke 314
Plant diseases 468
Tomato Troubles under Glass 133
'Don't despise the fallow' 314

Early Strawberries in Southern England 490
Education:
Fellowships in Agricultural Marketing 277
Eggs:
Egg marketing 312
Egg Production in the U.S.A.
—Part 1 424
—Part 2 501
Egg Production: The Small Farm 479
Good Incubation Practice 261
Electricity:
Automatic Feeding 282
Electrical Research Change 92
Electricity in Poultry Housing 289
Electricity in the farm dairy 562
Equipment: Farm . . . Buy or Hire? 515
Ewes go to the Dentist 411

Fallow: Don't despise the 314
Farm Amalgamation: Vaynol Estate 385
Farm Buildings:
Cow conduct and loose housing design 358
Cow 'Kennels' 297
Electricity in Poultry Housing 289
Farm buildings as an investment 98
Farm buildings insurance 466
Farm Workshops Today 527
Farrowing Houses for Pig Weaner Groups 196
Follow-on piggery for sows and litters 346
Industrialized Farm Buildings 588
Loose housing breeding herds 144
Made to measure 310
Maintenance of Farm Buildings 597
Modern Farm Workshop 603
Points in Pig Housing 361
Refrigerated Fruit Stores 304
Revised British Standard 411
Safe Walls 76
Short-life Buildings 538
Single-storey Hop-drying Building 616
Slatted floor systems for pigs 468
Farm Business:
Computers at the Farmer's Service 72
Digby Story 270
Farming on the Northern Hills 1961–63 17
Grass in an Arable Area 454
Mechanizing to reduce unit costs 10
Farm Classification in England and Wales 516
Farm Equipment . . . Buy or Hire? 515
Farmer Extraordinary 393
Farmers' Club as a Clearing House 251
Farming Cameo: Series 3:
24. East Huntingdonshire 36
25. Northern Plain, Isle of Wight 86
26. Maidstone East, Kent 142
27. Ormskirk, Lancashire 194
28. Loughborough, Leicestershire 246
29. North Kesteven, Lincolnshire 308
30. Snowdonia 356
31. Monmouth 406
32. North Montgomeryshire 462
33. Downham, Norfolk 510
34. West Northamptonshire 557
35. Alnwick and Morpeth, Northumberland 614
Farming on the Northern Hills 1961–63 17
Farming without Frills 233
Farm Rents in 1964 243
Farm Safety:
Mind that Child! 49
Standard Controls for Agricultural Machines 489
Farm Workshops:
—Part 1 Farm Workshops Today–changes in their purpose 527
—Part 2 The Modern Farm Workshop–its siting and equipment 603
Farrowing Houses for Pig Weaner Groups 196
Fat Lambs from Rape 397
Feeding and Feedingstuffs:
Automatic Feeding 282
Fat Lambs from Rape 397
Feeding Time 155
Feed into Milk 325
Floor or trough feeding? 251
Hay in the Barn 209
How much lime in a laying ration? 411
Maize-rich diets for in-wintered ewe hoggs 32
Some Recent Trends in Pig Nutrition 436
Vacuum Compression Silage 219
Feeding Time 155
Fellowships in Agricultural Marketing 277
Fenland Flood Protection 171
Fertilizers and Fertilizing:
Fertilizers: Compounds or Straights? 146
Fertilizers in Solution 102
Fish Farming 497
Fixed Equipment and the Breeding Ewe 248
Flies in Poultry Houses 138
Floor or trough feeding? 251
Flowers:
Know your Market 402
Vase-fresh Flowers 190
Fluorosis in Cattle: Animal Disease Surveys Report No. 2, Part II 561
Follow-on piggery for sows and litters 346
Forestry:
Coming of the Conifers 203
Reclamation of Derelict Woodland 408
Trees on the Farm 553
Fowl Pest Policy 360
Free Vaccination against Brucellosis 1
From the ALS:
Bustards, Feasaunts and Hares 88
Combined sheep and cattle handling units 464
Cow conduct and loose housing design 358
Farrowing Houses for Pig Weaner Groups 196
Fixed Equipment and the Breeding Ewe 248
Loose housing breeding herds 144
Made to measure 310

From the ALS: (*cont.*)
Planning Improvements 38
Reclamation of Derelict Woodland 408
Short-life Buildings 538
Single-storey Hop-drying Building 616
Trespassers will be Prosecuted 512
Fruit:
Blackcurrant Reversion 106
Early Strawberries in Southern England 490
Handling Apples and Pears at Writtle 162
Mechanizing the Blackcurrant Harvest 332
Refrigerated Fruit Stores 304
Top Fruit Propagation: Pooling by Long Ashton and East Malling 147

Glass and Glasshouses:
Gross Margins from Glass 609
Tomato Troubles under Glass 133
Warm Air Heating of Glasshouses 238
Good Incubation Practice 261
Grain in Store 473
Grain Storage: Chilled 579
Grain Stores: Syndicate 506
Grants for more small farmers: New 466
Grass and Grassland:
Acres of Neglect 381
Beef on the Side 319
Grass in an Arable Area 454
Grass into Beef 252
How many Acres per Cow? 570
Pasture Topping 361
Progress in Plant Breeding: Research Spot 390
Use and Abuse of Our Grassland 418
Weeds in Grass 119
Great Cattle Plague of 1865 482
Gross Margins from Glass 609
Growing tomatoes without guesswork 348

Handling and Storing Potatoes
—Part 1 274
—Part 2 329
Handling Apples and Pears at Writtle 162
Hay in the Barn 209
Hedge: Why not plant a? 410
Hill Farming:
Farming on the Northern Hills 1961–63 17
Fat Lambs from Rape 397
Home Wintering Welsh Mountain Ewe Lambs 427
On the Hills: Research Spot (H.F.R.O.) 70
Home-Grown Cereals Authority–bonus payments and levies 467
Home Wintering Welsh Mountain Ewe Lambs 427
Horticultural Business:
Concerning Annual Accounts 28
Is there money in lettuce? 65
Horticultural Management:
Growing tomatoes without guesswork 348
Handling Apples and Pears at Writtle 162
Mechanizing the Blackcurrant Harvest 332
Horticulture:
Early Strawberries in Southern England 490
Gross Margins from Glass 609
Horticultural Marketing: a new film 362
Know your Market 402
Newent and the L.S.A. 176
Refrigerated Fruit Stores 304
Tomato Troubles under Glass 133
Top Fruit Propagation: Pooling by Long Ashton and East Malling 147

Horticulture: (*cont.*)
Vase-fresh Flowers 190
Warm Air Heating of Glasshouses 238
How many Acres per Cow? 570
How many ewes to the acre? 222
How much lime in a laying ration? 411
Hungary: Agricultural Development in 606
Huntingdonshire; East: Farming Cameo 36
Hybrid Heavy Pigs 485

In Brief: 40, 90, 146, 202, 250, 312, 360, 410, 466, 514, 561, 620
Incubation Practice: Good 261
Industrialized Farm Buildings 588
Isle of Wight; Northern Plain: Farming Cameo 86
Is there money in lettuce? 65

Jordan: Jimmy (Farmer Extraordinary) 393

Keeping disease off your farm 21
Kent; Maidstone East: Farming Cameo 142
Know your Market 402

Lambs: Artificial Rearing of 54
Lancashire; Ormskirk: Farming Cameo 194
Legal:
Bustards, Feasaunts and Hares 88
Trespassers will be Prosecuted 512
Leicester Cheese 459
Leicestershire; Loughborough: Farming Cameo 246
Lettuce: Is there money in? 65
Lifting of Heavy Weights 345
Lime: How much in a laying ration? 411
Lincolnshire; North Kesteven: Farming Cameo 308
Liver Fluke–a bad winter forecast for the West 514
Liver Fluke: On your guard against 314
Loose housing breeding herds 144
L.S.A.: Newent and the 176

Machinery:
Buy or Hire? 250
Farm Workshops Today 527
Mechanizing the Blackcurrant Harvest 332
Mechanizing to reduce unit costs 10
Modern Farm Workshop 603
Standard Controls for Agricultural Machines 489
Standard tyre sizes for agricultural machinery 468
Thoughts on Economic Mechanization 569
Towards Spring Mechanization 50
Mackelvie: Donald–An Agricultural Benefactor 583
Made to measure 310
Maintenance of Farm Buildings 597
Maize-rich diets for in-wintered ewe hoggs 32
Marketing:
Agricultural Marketing Schemes 620
Egg marketing 312
Fellowships in Agricultural Marketing 277
Horticultural Marketing: a new film 362
Marketing Beef by Specifications 167
Marketing Home-grown Cereals 40
Materials Handling: Thoughts on 149
Meat:
Beef over the Counter 451
Marketing Beef by Specifications 167

Mechanization: Thoughts on Economic 569
Mechanization: Towards Spring 50
Mechanizing the Blackcurrant Harvest 332
Mechanizing to reduce unit costs 10
Milk:
  Feeding Time 155
  Feed into Milk 325
  Milk Production is a Complex Business 91
  More Profitable Milk 340
  Producing milk for profit 562
Mind that Child! 49
Minimum Cultivations for Cereals 522
Ministry's Publications: 31, 85, 141, 208, 245, 311, 355, 399, 509, 568, 613
Modern Farm Workshop–its siting and equipment 603
Monmouth: Farming Cameo 406
Montgomeryshire; North: Farming Cameo 462
More Profitable Milk 340

National Economic Development Plan: Agriculture's Role in 559
New blowfly dips 231
Newent and the L.S.A. 176
New grants for more small farmers 466
N.I.A.E. reports
  —1962–63 114
  —1963–64 494
Norfolk; Downham: Farming Cameo 510
Northamptonshire; West: Farming Cameo 557
Northumberland; Alnwick and Morpeth: Farming Cameo 614

Oats in Decline 301
On the Hills: Research Spot (H.F.R.O.) 70
On your guard against Fluke 314
Outdoor Pig Rearing by the 'Roadnight' System in N.E. Scotland 530

Pasture Topping 361
Peas: Weeds in 181
Pesticides: Recommended Common Names for 147
Pests:
  Colorado Beetle in 1964 204
  Flies in Poultry Houses 138
Pigs:
  Aims of PIDA's Accreditation Scheme 549
  Animal Disease Surveys: Cows, Sheep and Pigs 42
  Crossbreeding Pigs 148
  Farmer Extraordinary 393
  Farrowing Houses for Pig Weaner Groups 196
  Floor or trough feeding? 251
  Follow-on piggery for sows and litters 346
  Hybrid Heavy Pigs 485
  Outdoor Pig Rearing by the 'Roadnight' System in N.E. Scotland 530
  Pietrain Pigs 620
  Pig Breeding in the Future (Sir Richard Verdin) 41
  Pigs and the Size of Farm 376
  Pigs on Show 337
  Points in Pig Housing 361
  Rearing Pigs Outside 266
  Role of the Pure-Bred Pig Breeder 443
  Slatted floor systems for pigs 468
  Some Recent Trends in Pig Nutrition 436
Pioneers of Modern British Farming: Sir John Hammond 58
Planning Improvements 38
Plant Breeding in Wales: Research Spot 542
Plant Breeding; Progress in: Research Spot 390
Plant diseases 468
Points in Pig Housing 361
Poisonous Substances Regulations: Changes in the 516
Potatoes:
  Donald Mackelvie–An Agricultural Benefactor 583
  Handling and Storing Potatoes
    —Part 1 274
    —Part 2 329
  Progress in Plant Breeding: Research Spot 390
  Speeding the Potato Harvest 214
Poultry:
  Electricity in Poultry Housing 289
  Flies in Poultry Houses 138
  Fowl Pest Policy 360
  Good Incubation Practice 261
  How much lime in a laying ration? 411
  Poultry Feeders and Drinkers:
    —Feeders 24
    —Drinkers 80
  Poultry Health Scheme 621
  Tiny Turkeys 342
Producing milk for profit 562
Progress in Plant Breeding: Research Spot 390

Quest for Quality 373

Rape: Fat Lambs from 397
Rearing Pigs Outside 266
Reclamation of Derelict Woodland 408
Recommended Common Names for Pesticides 147
Refrigerated Fruit Stores 304
Research Spot:
  All about fruit (East Malling) 431
  A.R.C. reports 278
  N.I.A.E. reports
    —1962–63 114
    —1963–64 494
  On the Hills (H.F.R.O.) 70
  Plant Breeding in Wales 542
  Progress in Plant Breeding 390
Research: UK–USSR Agricultural 91
Role of the Pure-Bred Pig Breeder 443
Royal Agricultural College, Cirencester: Farming without Frills 233

Safe Walls 76
Save Those Calves! 521
Scouring Calf 62
Sheep:
  Animal Disease Surveys: Cows, Sheep and Pigs 42
  Artificial Rearing of Lambs 54
  Colbred Story 2
  Combined sheep and cattle handling units 464
  Ewes go to the Dentist 411
  Fat Lambs from Rape 397
  Fixed Equipment and the Breeding Ewe 248
  Grass in an Arable Area 454
  Home Wintering Welsh Mountain Ewe Lambs 427
  How many ewes to the acre? 222
  Liver Fluke–a bad winter forecast for the West 514
  Maize-rich diets for in-wintered ewe hoggs 32
  New blowfly dips 231
  On the Hills: Research Spot (H.F.R.O.) 70

Sheep: (*cont.*)
Size of Sheep 185
Some Breeds and Crosses for Fat Lamb Production 157
Spare-time Sheep Farmers 534
Swayback can be prevented 6
Which System? Which Breed? 368
Short Guide to the Annual Review, 1965 198
Short-life Buildings 538
Silage: Vacuum Compression 219
Single-storey Hop-drying Building 616
Size of Sheep 185
Slatted floor systems for pigs 468
Small Farm:
Beef Production 262
Egg Production 479
Small farmers: New grants for more 466
Snowdonia: Farming Cameo 356
Soil: Wet–seen and unseen 110
Some Breeds and Crosses for Fat Lamb Production 157
Some Recent Trends in Pig Nutrition 436
Spare-time Sheep Farmers 534
Special Features:
Electricity 281–296
Farm Buildings 587–602
Pigs 435–450
Weed Control 117–132
Speeding the Potato Harvest 214
Standard Controls for Agricultural Machines 489
Standardization for Trees and Shrubs 621
Standard tyre sizes for agricultural machinery 468
Stockmanship 226
Straw and Stubble Burning 400
Strawberries in Southern England: Early 490
Sugar Beet:
Progress in Plant Breeding: Research Spot 390
Towards Spring Mechanization 50
Swayback can be prevented 6
Syndicate Grain Stores 506

Thoughts on Economic Mechanization 569
Thoughts on Materials Handling 149
Tiny Turkeys 342
Tomatoes:
Growing tomatoes without guesswork 348
Tomatoes under Reflectors 13
Tomato Troubles under Glass 133
Top Fruit Propagation: Pooling by Long Ashton and East Malling 147
Towards Spring Mechanization 50
Trees and Shrubs: Standardization for 621
Trees on the Farm 553
Trespassers will be Prosecuted 512
Triple Suckling Pays 14
Turkeys: Tiny 342
Twenty-five million by A.I. 202
Tyre sizes: Standard for agricultural machinery 468

UK–USSR Agricultural Research 91
Use and Abuse of Our Grassland 418

Vaccination against Brucellosis: Free 1
Vacuum Compression Silage 219
Vase-fresh Flowers 190
Vaynol Estate 385
Vegetables:
Carrot growing on the Bed System 313
Vegetables: (*cont.*)
Handling and Storing Potatoes
—Part 1 274
—Part 2 329
Speeding the Potato Harvest 214
Weeds in Peas 181

Wales; Plant Breeding in: Research Spot 542
Walls: Safe 76
Warm Air Heating of Glasshouses 238
Weeds:
Weeds in Arable 122
Weeds in Grass 119
Weeds in Peas 181
Wensleydale Cheese 82
Wet Soil–seen and unseen 110
Which System? Which Breed? 368
Why not plant a hedge? 410
Writtle: Handling Apples and Pears at 162

Young ideas wanted 562

BOOK REVIEWS

Agricultural Atlas of England and Wales (*J. T. Coppock*) 44
Agricultural Policy in Britain (*E. F. Nash*) 564
Agricultural Science (*Glasgow University*) 48
Agriculture (Target for Careers) (*R. Adcock*) 566
Animal Genetics (*F. B. Hutt*) 206
Animal Nutrition (*Cyril Tyler*) 150
Benefits from Planning (*Michael E. Daw*) 256
Bibliography of Farm Buildings Research. Part V–Buildings for the Drying and Storage of Grain, 1st Supplement, 1958–1961 (*Agricultural Research Council*) 207
Biological Control of Insect Pests and Weeds (Edited by *Paul de Bach*, assisted by *Evert I. Schlinger*) 43
Biology as a Career (*Institute of Biology*) 153
Catalogue of Lewis's Medical, Scientific and Technical Lending Library (*H. K. Lewis*) 471
Chemistry of the Soil (2nd Edition) (Edited by *Firmin E. Bear*) 563
Common British Grasses and Legumes (4th Edition) (*J. O. Thomas* and L. J. *Davies*) 364
Common Liver Fluke (*E. M. Pantelouris*) 469
Commuters' Village (*Ruth Crichton*) 153
County Council Smallholdings in Yorkshire. A Social and Economic Assessment (*Michael Black*) 519
Crop Husbandry (*H. C. Mason*) 565
Daffodil and Tulip Year Book, 1965 (*Royal Horticultural Society*) 152
Derelict Land (*Civic Trust*) 316
Design and Construction of Dairy Buildings. B.S. Code of Practice, No. 11 (*British Standards Institution*) 365
Development and Performance of the Herringbone Parlour, with Special Reference to Great Britain (*P. H. Easton* and *C. N. Harvey*) 47
Dogs and Guns (*R. V. Garton*) 254
Energy Metabolism (Edited by *K. L. Blaxter*) 517
English Climate (*H. H. Lamb*) 255
Essays on Crop Plant Evolution (Edited by *Prof. Sir Joseph Hutchinson*) 412
Experimental Farm Buildings Scheme, Report No. 1—Cow Cubicles (*Agricultural Research Council*) 47

Experimental Farm Buildings Scheme, Report No. 2—Light and Heat in a Large-Span Glasshouse (*Agricultural Research Council*) 95
Experimental Farm Buildings Scheme, Report No. 3—Slatted Floors (*Agricultural Research Council*) 415
Farm Buildings Design and Construction (*D. H. Pasfield*) 253
Farm Crop Science (*Graham Boatfield*) 258
Farm Machinery (*A. G. Harris, T. B. Muckle* and *J. A. Shaw*) 565
Farm Machinery—Operation and Care (*J. C. Turner*) 206
Farm Pests: An Aid to their Recognition (*T. E. T. Trought*) 412
Farm Tractors (*Brian J. Bell*) 365
Fertilizer Application—Soil, Plant, Animal (*André Voisin*) 413
Fertilizers and Profitable Farming (2nd Edition) (*G. W. Cooke*) 414
General Parasitology (*V. A. Dogiel*) 150
Grasses and Grasslands (Edited by *C. Barnard*) 44
Grower Digest of Current Research, Volume 1 (Compiled by *R. T. Pearl*) 257
Handbuch der Pflanzenphysiologie: Encyclopedia of Plant Physiology. Vol. 15. Differentiation and Development. Parts 1 and 2 (*W. Ruhland*) 470
High Energy Diets for Poultry (*W. O. Brown*) 95
Hops (*A. H. Burgess*) 315
Identification of Flowering Plant Families (*P. H. Davis* and *J. Cullen*) 471
Index of Agricultural Research, 1964 (4th Edition) (*Agricultural Research Council*) 154
Introduction to Agricultural Chemistry (3rd Edition) (Revised by *J. S. Willcox* and *W. N. Townsend*) 469
Introduction to Soil Science (*G. W. Leeper*) 94
Journal of Applied Ecology (Edited by *A. H. Bunting* and *V. C. Wynne-Edwards*) 93
Knot of Roots (*The Earl of Portsmouth*) 363
Land (*John Higgs*) 45
Law of Agricultural Holdings (4th Edition) (*W. S. Scammell*) 205
Library Guide to Agriculture (*K. W. Neal*) 415
Lily Year Book, 1965 (*Royal Horticultural Society*) 207
Lincolnshire—A Shell Guide (*Jack Yates* and *Henry Thorold*) 414
Mechanised Livestock Farming (*Ray Mortimer*) 254
Multivariate Statistical Analysis for Biologists (*Hilary Seal*) 316
New Method of Increasing Livestock Productivity (*A. A. Baiburtcjan*) 253
Newsom's Sheep Diseases (3rd Edition) (*H. Marsh*) 622
Old English Towns (*F. R. Banks*) 94
Pests of Field Crops (*F. G. W. Jones* and *Margaret Jones*) 93
Portrait of the Isle of Wight (*Lawrence Wilson*) 565
Portrait of the Quantocks (*Vincent Waite*) 152
Practical Poultry Keeping (6th Edition) (Revised by *J. Portsmouth*) 151
Proteins: Their Chemistry and Politics (*Aaron M. Altschul*) 566
Rhododendron and Camellia Year Book, 1965 (*Royal Horticultural Society*) 256
Scientific Principles of Crop Protection (5th Edition) (*H. Martin*) 151
Seasons and Prices (*E. L. Jones*) 205
Shearers and the Shorn (*E. W. Martin*) 363
Sheep Production and Grazing Management (*C. R. W. Spedding*) 563
Shell Treasury of the Countryside (Edited by *John Baker*) 624
Soils and Land Use of the District around Aylesbury and Hemel Hempstead (*B. W. Avery*) 45
Soils: An Introduction to Soils and Plant Growth (2nd Edition) (*Roy L. Donahue*) 622
Soils of the Mendip District of Somerset (*Agricultural Research Council*) 518
Soils of the Middle Teign Valley District of Devon (*B. Clayden*) 256
Soils of the West Midlands (*D. Mackney* and *C. P. Burnham*) 471
Teach Yourself: Modern Poultry Keeping (*C. E. Fermor*) 258
Tomato Growers Interests in a Western European Market (*R. R. W. Folley*) 46
Towards Better Marketing (*Report on Proceedings of Course at Nottinghamshire Farm Institute 1964*) 47
T.V. Vet. Book for Stock Farmers (*The T.V. Vet.*) 364
Unfortunate Husbandman (*Desmond Clarke*) 255
United Kingdom Dairy Facts and Figures, 1964 (*The Federation of United Kingdom Milk Marketing Boards*) 153
Variétés d'Avoine Cultivées en France (*C. Moule*) 518
Way of a Countryman (*Ian Niall*) 567
Weed Control Handbook (4th Edition) (*S. A. Evans* and *E. K. Woodford*) 315
Weed Research Organisation. First Report, 1960–64 (*Agricultural Research Council*) 317
Wheat: Botany Cultivation and Utilization. World Crop Series (*R. F. Peterson*) 517
Wings of Light (Compiled by *Garth Christian*) 564

VOL. 72

JANUARY 1965—DECEMBER 1965

AUTHOR INDEX

Andrew, D. M.: Loose housing breeding herds 144
Armitage, Miss M. M.: Is there money in lettuce? 65

Baker, Ken: Beef on Record 320
Baker, W. T.: Agricultural Development in Hungary 606
Barber, Derek and W. W. Young: The Colbred Story 2
Barnard, C. S.: Computers at the Farmer's Service 72
Beesley, W. N.: The new blowfly dips 231
Bellis, D. B.: Rearing Pigs Outside 266
Bevan, H. J. and A. J. Brown: Some Breeds and Crosses for Fat Lamb Production 157
Beynon, V. H.: Use and Abuse of Our Grassland 418
Blair, R. and I. M. Reid: Outdoor Pig Rearing by the 'Roadnight' System in N.E. Scotland 530
Brayshaw, G. H. and E. M. Carpenter: Beef over the Counter 451
Brewis, T. H.: Grass into Beef 252
Brierley, J. W.: Fixed Equipment and the Breeding Ewe 248
Brown, A. J.: Barley Growing in Devon 544
Brown, A. J. and H. J. Bevan: Some Breeds and Crosses for Fat Lamb Production 157
Burr, F. E.: Combined sheep and cattle handling units 464
Butler, J. B.: Beef Production 262
Butterfield, R. M., D. D. Charles and J. Francis: Marketing Beef by Specifications 167

Calder, Alec: More Profitable Milk 340
Camamile, G. H.: Concerning Annual Accounts 28
Capper, N. D. O.: Syndicate Grain Stores 506
Carpenter, E. M. and G. H. Brayshaw: Beef over the Counter 451
Cartwright, H.: Planning Improvements 38
Chaplin, N. R. C. and Margaret Murray: Poultry Feeders and Drinkers
—Feeders 24
—Drinkers 80
Chaplin, R. E. M.: Cow conduct and loose housing design 358
Charles, D. D., R. M. Butterfield and J. Francis: Marketing Beef by Specifications 167
Clegg, F. G.: Swayback can be prevented 6
Clift, J. H.:
Speeding the Potato Harvest 214
Handling and Storing Potatoes
—Part 1 274
—Part 2 329
Cottam, J. F.: Cattle Grids 313
Court, Doris: Feeding Time 155
Culley, A. F.: Single-storey Hop-drying Building 616
Culpin, C.: Thoughts on Economic Mechanization 569

Davidson, Michael: The Role of the Pure-Bred Pig Breeder 443
Davies, Albert: Automatic Feeding, 282
Davies, D. A. R. and J. B. Owen: Artificial Rearing of Lambs 54
Davies, John: Weeds in Grass 119
Dawson, R. E.: Safe Walls 76
de Mattos, P. S.: Farm buildings insurance 466
Dobson, C.:
Farrowing Houses for Pig Weaner Groups 196
Maintenance of Farm Buildings 597

Earp, G. R.: Blackcurrant Reversion 106
Eden, A.: Some Recent Trends in Pig Nutrition 436
Evans, Stanley: Weeds in Arable 122

Farquharson, Ronald: Chilled Grain Storage 579
Fiddian, W. E. H. and F. R. Horne: The Changing Scene in Barley Varieties 575
Fletcher, J. T.: Tomato Troubles under Glass 133
Folley, Roger: Know your Market 402
Francis, J., D. D. Charles and R. M. Butterfield: Marketing Beef by Specifications 167
Friedlander, J. A. P.: Hybrid Heavy Pigs 485
Furneaux, Basil: Wet Soil–seen and unseen 110

Gardiner, I. B.: Buy or Hire? 250
Goodland, Norman: Pigs on Show 337
Gradidge, J. M. G.: Flies in Poultry Houses 138
Green, N. K.: Made to measure 310

Hall, J. R. L.: Farming Cameo: Loughborough, Leicestershire 246
Hall, Sherwin A.: The Great Cattle Plague of 1865 482
Harris, A. G.: Which System? Which Breed? 368
Harris, A. H.: The Scouring Calf 62
Harvard, A. and C. P. Scott: Home Wintering Welsh Mountain Ewe Lambs 427
Harvey, Nigel: Farm Equipment . . . Buy or Hire? 515
Healey, A. G.: Handling Apples and Pears at Writtle 162
Hemingway, R. G.: Maize-rich diets for in-wintered ewe hoggs 32
Hine, H. J.:
Farm Workshops Today–changes in their purpose 527
The Modern Farm Workshop–its siting and equipment 603
Hinton, W. L.: Gross Margins from Glass 609
Hoare, J. F.:
Bustards, Feasaunts and Hares 88
Trespassers will be Prosecuted 512
Holder, F. W.: Industrialized Farm Buildings 588
Hollinrake, H.: Follow-on piggery for sows and litters 346
Holt, John: Thoughts on Materials Handling 149
Horne, F. R. and W. E. H. Fiddian: The Changing Scene in Barley Varieties 575
Hughes, Hilary M.: Early Strawberries in Southern England 490
Hughes, H. V.: Farming without Frills 233
Hunt, T. E.: Farming Cameo: North Kesteven, Lincolnshire 308

Jackson, B. G., C. A. Wagstaff and Sonia Kurta: Grass in an Arable Area 454
James, Gwyn: Beef on the Side 319
Jenkins, John: Mechanizing to reduce unit costs 10
Jones, Arthur and Tom Jones: The Vaynol Estate 385
Jones, Ivor W.: Farming Cameo: Snowdonia 356
Jones, Tom and Arthur Jones: The Vaynol Estate 385
Juckes, David: Pigs and the Size of Farm 376

Kimber, D. S.: Oats in Decline 301
King, J. M.: Weeds in Peas 181
Kurta, Sonia, C. A. Wagstaff and B. G. Jackson: Grass in An Arable Area 454

Laflin, T.: Mechanizing the Blackcurrant Harvest 332
Laverton, Sylvia: Research Spot
—The A.R.C. reports 278
—All about fruit 431
Lawrence, A. J. L.:
—Research Spot: On the Hills 70
—Crossbreeding Pigs 148
—The Coming of the Conifers 203
—Research Spot: Progress in Plant Breeding 390
—Research Spot: Plant Breeding in Wales 542

Mann, G.: Refrigerated Fruit Stores 304
Martin, Marion:
Egg Production in the U.S.A.
—Part 1 424
—Part 2 501
McHardy, L. J.: The Digby Story 270
Middleton, Marjorie: Wensleydale Cheese 82
Moore, E. O.: Farming Cameo: Monmouth 406
Moore, Ian:
Quest for Quality 373
Trees on the Farm 553
Morgan, M. C.: Tiny Turkeys 342
Mudd, C. H.: Acres of Neglect 381
Murray, Margaret and N. R. C. Chaplin: Poultry Feeders and Drinkers
—Feeders 24
—Drinkers 80

Nicholson, J. A. H.: Growing tomatoes without guesswork 348
Nightingale, G. D.: Reclamation of Derelict Woodland 408
Noble, K. C.: Fenland Flood Protection 171

O'Hanlon, S. R.: Research Spot: The N.I.A.E. reports 494
Ormrod, J. F.: How many Acres per Cow? 570
Owen, J. B. and D. A. R. Davies: Artificial Rearing of Lambs 54
Owers, A. C.: Towards Spring Mechanization 50

Park, R. D.: Cow 'Kennels' 297
Patterson, Wesley: Farmer Extraordinary 393
Pawson, H. Cecil: Donald Mackelvie–An Agricultural Benefactor 583
Pentelow, F. T. K.: Fish Farming 497
Phillips, R. J.: Fat Lambs from Rape 397
Platt, Bryan: Pioneers of Modern British Farming—Sir John Hammond 58
Preston, T. R.: Feed into Milk 325
Price, T. J.: Triple Suckling Pays 14
Prowel, A. W.: Spare-time Sheep Farmers 534

Reid, I. M. and R. Blair: Outdoor Pig Rearing by the 'Roadnight' System in N.E. Scotland 530
Robson, S.: Farming on the Northern Hills 1961–63 17
Rowlands, W. T.: Liver Fluke–a bad winter forecast for the West 514
Russell, Kenneth: How many ewes to the acre? 222

Scott, Clive: Farming Cameo: North Montgomeryshire 462
Scott, C. P. and A. Harvard: Home Wintering Welsh Mountain Ewe Lambs 427
Scott, R.:
Derby Cheese 352
Leicester Cheese 459
Senior, W. S.: Egg Production 479
Shipway, G. P.: Warm Air Heating of Glasshouses 238
Smith, R. F.: Farm buildings as an investment 98
Smith, Walter R.: The Charolais in England and Wales 210
Smith, W. Hugh: Vase-fresh Flowers 190

Tate, R. G.: Farming Cameo: Alnwick and Morpeth, Northumberland 614
Taylor, G. B.: Keeping disease off your farm 21
Thirkell, J. D.: Fertilizers in Solution 102
Thompson, J. K.: Farming Cameo: Ormskirk, Lancashire 194
Tristram, J. E.: Farming Cameo: West Northamptonshire 557
Turner, Richey: Beef from Ayrshires 474

van Zeller, C. P.: Vacuum Compression Silage 219

Wagstaff, C. A., Sonia Kurta and B. G. Jackson: Grass in an Arable Area 454
Wakeford, Peter: Electricity in Poultry Housing 289
Walker, J. P.: Farming Cameo: East Huntingdonshire 36
Watkins, R. H.: Why not plant a hedge? 410
Webster, John J. S.: Farming Cameo: The Northern Plain, Isle of Wight 86
Weston, P. C.: Farming Cameo: Downham, Norfolk 510
White, James: The Aims of PIDA's Accreditation Scheme 549
Whybrew, J. E.: Minimum Cultivations for Cereals 522
Wiener, Gerald: The Size of Sheep 185
Williams, Stephen: Stockmanship 226
Willis, F. J.:
Autumn Calvers 417
Save Those Calves! 521
Wright, W. J.: Newent and the L.S.A. 176
Wyatt, S. C.: Farming Cameo: Maidstone East, Kent 142
Wynne, A. J.: Milk Production is a Complex Business 91

Young, G. A.: Short-life Buildings 538
Young, W. W. and Derek Barber: The Colbred Story 2

Zeller, C. P. van: Vacuum Compression Silage 219